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PTO/SB/21 (04-04)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/791,377
Filing Date	March 2, 2004
First Named Inventor	Dantus et al.
Art Unit	not yet assigned
Examiner Name	not yet assigned
Total Number of Pages in This Submission	Attorney Docket Number: 6550-000057/CPE

ENCLOSURES *(check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment / Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ After Allowance Communication to Technology Center (TC)
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) *(please identify below)*:

  Form 1449; copies of 2 foreign documents; copies of 97 other documents; and return postcard.

Remarks

The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name: Michael J. Lang, Ph.D.	Reg. No.: 51,120
Signature			
Date	09/08/2004		

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Michael J. Lang, Ph.D.	Express Mail Label No.	EV 531 989 861 US (9/8/2004)
Signature		Date	09/08/2004

EV 531 989 861 US

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Typed or printed name	Michael J. Lang, Ph.D.	Express Mail Label No.	EV 531 989 861 US (9/8/2004)
Signature		Date	09/08/2004

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:	10/791,377
Filing Date:	March 2, 2004
Applicant:	M. Dantus et al.
Group Art Unit:	not yet assigned
Examiner:	not yet assigned
Title:	LASER SYSTEM USING ULTRA-SHORT LASER PULSES
Attorney Docket:	6550-000057/CPE

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A.____ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cross-referenced pending U.S. application listed below in Section IV, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ____ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number U.S. Filing Date

C. _X_ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D.____ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. _X_ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B.____ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1.____See the attached foreign patent office communication from a counterpart foreign application.
2.____English translations are provided.
3.____Other:

C._X_The following additional information is provided for the Examiner's consideration.

The following references appear somewhat more relevant than others cited herein: U.S. Patent Nos. 3,919,881; 3,988,704; 4,819,239; 4,913,934; 5,048,029; 5,585,913; 6,480,656; 6,504,612; and Weiner, A.M. (2000); Zheng, Z. (2001); Lozovoy, V.V. (2003). Notwithstanding, the Examiner is requested to review all of the cited references and make his/her own relevancy determinations.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. _X_The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.	Filing Date	Art Unit
10/265,211	January 28, 2002	

V. THIS IDS IS BEING FILED UNDER

A. _X_ **37 C.F.R. § 1.97(b)**: (check only one box)

1. ____ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. _X_ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of $180.00 as required by 37 C.F.R. § 1.17(p).

4. ____ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ____**37 C.F.R. § 1.97(c)**: (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ____No certification; therefore, a fee in the amount of $180.00 is required by 37 C.F.R. § 1.17(p).

2. ____See the certification below. No fee is required.

C. ____**37 C.F.R. § 1.97(d)**:

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ____See the certification below. A fee in the amount of $180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. ____ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or

B. ____ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ____Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

___ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. ____ A check in the amount of $180.00 is enclosed for the above-identified fee.

B. ____Please charge Deposit Account No. 08-0750 in the amount of $180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination,

to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: 09/08/2004

By: _____
Monte L. Falcoff
Reg. No. 37,617
Michael J. Lang, Ph.D.
Reg. No. 51,120

HARNESS, DICKEY & PIERCE, P.L.C.
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(248) 641-1600
MLF/MJL/csd

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 10

ATTORNEY DOCKET NO.	SERIAL NO.
6550-000057/CPE	10/791,377
APPLICANT	
Dantus et al.	
FILING DATE	GROUP
March 2, 2004	not yet assigned

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		2003/0099264	10/2002	Dantus et al.		
2.		3,919,881	11/1975	Metherell		
3.		3,988,704	10/1976	Rice et al.		
4.		4,655,547	4/1987	Heritage et al.		
5.		4,746,193	5/1988	Heritage et al.		
6.		4,819,239	4/1989	Sharp et al.		
7.		4,866,699	9/1999	Brackett et al.		
8.		4,913,934	4/1990	Sharp et al.		
9.		4,928,316	5/1990	Heritage et al.		
10.		5,034,613	7/1991	Denk		
11.		5,048,029	9/1991	Skupsky et al.		
12.		5,132,824	7/1992	Patel et al.		
13.		5,239,607	8/1993	da Silva et al.		
14.		5,526,171	6/1996	Warren		
15.		5,530,544	6/1996	Trebino et al.		
16.		5,585,913	12/1996	Hariharan et al.		
17.		5,754,292	5/1998	Kane et al.		
18.		5,759,767	6/1998	Lakowicz		
19.		5,774,213	6/1998	Trebino et al.		
20.		5,793,091	8/1998	Devoe		
21.		5,832,013	11/1998	Yessik et al.		

Examiner: Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) **PATENT AND TRADEMARK OFFICE** **INFORMATION DISCLOSURE CITATION** (Use several sheets if necessary) Sheet 2 of 10	ATTORNEY DOCKET NO.	SERIAL NO.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	not yet assigned

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.		5,936,732	8/1999	Smirl et al.		
23.		6,008,899	12/1999	Trebino et al.		
24.		6,042,603	3/2000	Dees et al.		
25.		6,057,919	5/2000	Machida et al.		
26.		6,111,251	8/2000	Hillenkamp		
27.		6,130,426	10/2000	Park et al.		
28.		6,166,385	12/2000	Webb		
29.		6,219,142	4/2001	Kane		
30.		6,259,104	7/2001	Baer		
31.		6,288,782	9/2001	Worster		
32.		6,316,153	11/2001	Goodman		
33.		6,327,068	12/2001	Silberberg et al.		
34.		6,344,653	2/2002	Webb		
35.		6,480,656	11/2002	Islam et al.		
36.		6,504,612	1/2003	Trebino		
37.		6,566,667	5/2003	Partli et al.		
38.		6,577,782	6/2003	Leaird et al.		
39.		6,621,613	9/2003	Silberberg et al.		
40.		6,678,450	1/2004	Franson		

Examiner:	Date Considered:

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	Dantus et al.	
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	March 2, 2004	not yet assigned

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		WO 02 061799	01/2002	PCT			
2.		WO 00 70647	11/2000	PCT			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.		Anderson, M.E. et al.; "The effects of noise on ultrashort-optical-pulse measurement using SPIDER"; Appl. Phys. B 70 (Suppl.); 2000; pgs. S85-S93.
2.		Assion, A. et al.; "Control of Chemical Reactions by Feedback-Optimized Phase-shaped Femtosecond Laser Pulses"; Science Magazine, Vol. 282; October 30, 1998; pgs. 919-922.
3.		Baltuska, Andrius et al.; "Amplitude and phase characterization of 4.5-fs pulses by frequency-resolved optical gating"; Optics Letters, Vol. 23, No. 18, September 15, 1998; pgs. 1474-1476.
4.		Baltuska, Andrius et al.; "Visible pulse compression to 4 fs by optical parametric amplification and programmable dispersion control"; Optics Letters, Vol. 27, No. 5, March 1, 2002; pgs. 306-308.
5.		Baumert, T. et al.; "Femtosecond pulse shaping by an evolutionary algorithm with feedback"; Appl. Phys. B 65 (1997); pgs. 779-782.
6.		Belfield, K.D. et al.; "Two-photon photoinitiated polymerization"; J. Phys. Org. Chem. 13(12): 837-849 (December 2000).
7.		Bhattacharya, N. et al.; Phys. Rev. Lett. 88 (2002) 137901-1.
8.		Brattke, S. et al.; "Generation of Photon Number States on Demand via Cavity Quantum Electrodynamics"; Phys. Rev. Lett.; April 16, 2001; Vol. 86, No. 16; pp. 3534-3537.
9.		Brixner, T. et al.; "Feedback-controlled femtosecond pulse shaping"; Appl. Phys. B 70 (Suppl.) 2000; pgs. S119-S124.
10.		Broers, B. et al.; "Diffraction and focusing of spectral energy in multiphoton processes"; Phys. Rev. A; 1992; 46, 2749.
11.		Broers, B. et al.; "Large interference effects of small chirp observed in 2-photon absorption"; Opt. Commun. 1992, 91, 57.

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FORM HDP-1449 (Based on Form PTO-1449) **PATENT AND TRADEMARK OFFICE** **INFORMATION DISCLOSURE CITATION** (Use several sheets if necessary) Sheet 4 of 10	ATTORNEY DOCKET NO.	SERIAL NO.
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	March 2, 2004	not yet assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
12.		Bucksbaum, Philip; "An atomic dimmer switch"; Nature; November 19, 1998; Vol. 396; pp. 217-219.
13.		Buist, A.H. et al.; "Probing microscopic chemical environments with high-intensity chirped pulses"; Optics Letters 24, 244-246 (1999).
14.		Chilla, Juan L.A. et al.; "Direct determination of the amplitude and the phase of femtosecond light pulses"; January 1, 1991, Vol. 16, No. 1; Optics Letters; pgs. 39-41.
15.		Chu, K.C. et al.; "Direct measurement of the spectral phase of femtosecond pulses"; Optics Letters, Vol. 20, No. 8; April 15, 1995; pgs. 904-906.
16.		Clara et al.; "Femtosecond laser mass spectroscopy of ferrocenes: photochemical stabilization by bridged cyclopentadienyl rings?"; International Journal of Mass Spectrometry, Elsevier Science Publishers; Vol. 203, no. 1-3; December 26, 2000; pp. 71-81.
17.		Clement, Tracy Sharp et al.; "Single-Shot measurement of the amplitude and phase of ultrashort laser pulses in the violet"; January 1, 1995; Optics Letters, Vol. 20, No. 1; pgs. 70-72.
18.		Cormack, I.G. et al.; "Practical measurement of femtosecond optical pulses using time-resolved optical gating"; Optics Communications 194 (July 15, 2001); pgs. 415-424.
19.		Cumpston, B.H. et al.; "New Photopolymers based on Two-Photon Absorbing Chromophores and Application to Three-Dimensional Microfabrication and Optical Storage"; Mat. Res. Soc. Symp. Proc.; Vol 488.
20.		Cumpston, B.H. et al.; "Two-photon polymerization initiators for three-dimensional optical data storage and microfabtrication"; Letters to Nature, pp. 51-54.
21.		Dela Cruz, J.M. et al.; "Multiphoton intrapulse interference 3: Probing microscopic chemical environments"; J. Phys. Chem. A 2004.
22.		Dietrich, P. et al.; "Determining the absolute carrier phase of a few-cycle laser pulse"; Optics Letters, Vol. 25, No. 1, January 1, 2000; pgs. 16-18.
23.		Ding, Y.; "Femtosecond pulse shaping by dynamic holograms in photorefractive multiple quantum wells"; Optics Letters; May 15, 1997; Vol. 22, No. 10; pp. 718-720.
24.		Dorrer, C. et al.; "Direct space-time characterization of the electric fields of ultrashort optical pulses"; Optics Letters, Vol. 27, No. 7, April 1, 2002; pgs. 548-550.

Examiner:	Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) **PATENT AND TRADEMARK OFFICE** **INFORMATION DISCLOSURE CITATION** (Use several sheets if necessary) Sheet 5 of 10	ATTORNEY DOCKET NO.	SERIAL NO.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	not yet assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
25.		Dorrer, Christophe et al.; "Precision and consistency criteria in spectral phase interferometry for direct electric-field reconstruction"; J. Opt. Soc. Am. B, Vol. 19, No. 5, May 2002; pgs. 1030-1038.
26.		Drexler, W. et al.; In vivo ultrahigh-resolution optical coherence tomography"; Optics Letters; September 1, 1999; Vol. 24, No. 17; pp. 1221-1223.
27.		Dudley, John M. et al.; "Complete Characterization of Ultrashort Pulse Sources at 1550 nm"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4; April 1999; pgs. 441-450.
28.		Dudovich, N. et al.; "Transform-limited pulses are not optimal for resonant multiphoton transitions"; Phys. Rev. Lett. 86, 47-50 (2001).
29.		Gallmann, L. et al.; "Spatially resolved amplitude and phase characterization of femtosecond optical pulses"; Optics Letters, Vol. 26, No. 2, January 15, 2001; pgs. 96-98.
30.		Gallmann, L. et al.; "Techniques for the characterization of sub-10-fs optical pulses: a comparison"; Appl. Phys. B 70 (Suppl), 2000; pgs. S67-S75.
31.		Garcia-Ripoll, J.J. et al.; "Speed Optimized Two-Qubit Gates with Laser Coherent Control Techniques for Ion Trap Quantum Computing"; Physical Review Letters; Vol. 91, No. 5; October 10, 2003; pg. 157901-1 - 157901-4.
32.		Geindre, J.P. et al.; "Single-shot spectral interferometry with chirped pulses"; Optics Letters, Vol. 26, No. 20, October 15, 2001; pgs. 1612-1614.
33.		Goswami, D.; "Optical pulse shaping approaches to coherent control"; Physics Reports; 374 (2003); pg. 385-481.
34.		Goswami, D.; "Ultrafast Pulse Shaping approaches to Quantum Computing"; Indian Institute of Technology; December 24, 2003.
35.		Hacker, M. et al.; "Frequency doubling of phase-modulated, ultrashort laser pulses"; Appl. Phys. B 73; (2001); pgs. 273-277.
36.		Hasan, T. et al.; "Photodynamic Therapy of Cancer"; Chapter 40 in Holland Frei Cancer Medicine, BC Dekker Inc. (2003).
37.		Hillegas, C.W. et al.; "Femtosecond laser pulse shaping by use of microsecond radio-frequency pulses"; Optics Letters; May 15, 1994; vol. 19, No. 10; pp. 737-739.
38.		Hornung, Thomas et al.; "Adapting optimal control theory and using learning loops to provide experimentally feasible shaping mask patterns"; Journal of Chemical Physics, Vol. 115, No. 7; August 15, 2001; pgs. 3105-3111.

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	6550-000057/CPE	10/791,377
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	6550-000057/CPE	10/791,377
	APPLICANT	
	Dantus et al.	
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